

Figure #1: Electrical power distribution network having a composite high impedance fault detection system

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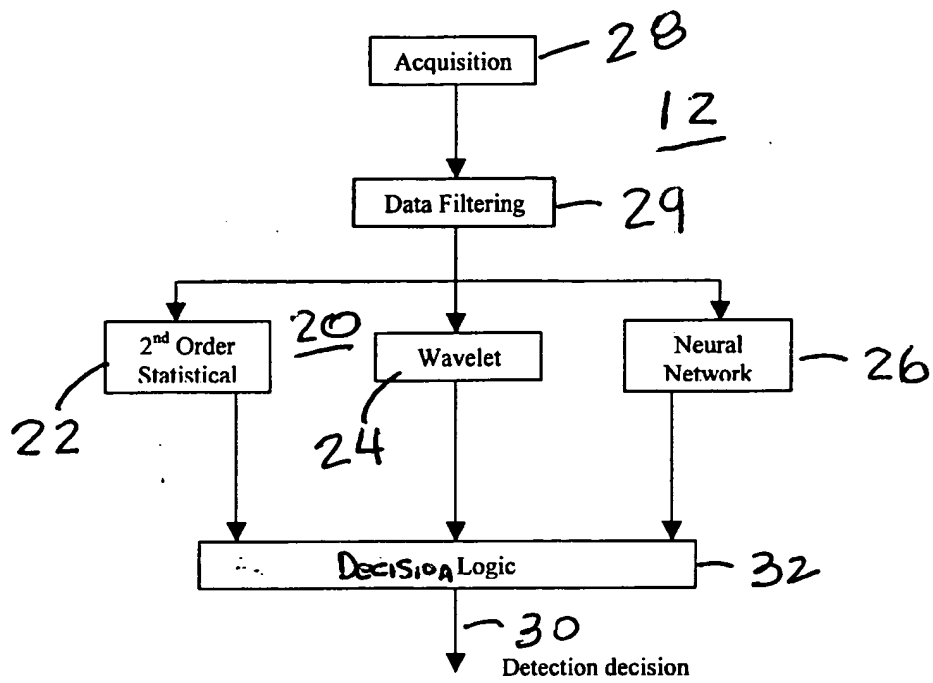


Figure #2: Block diagram of a composite high impedance fault detection system

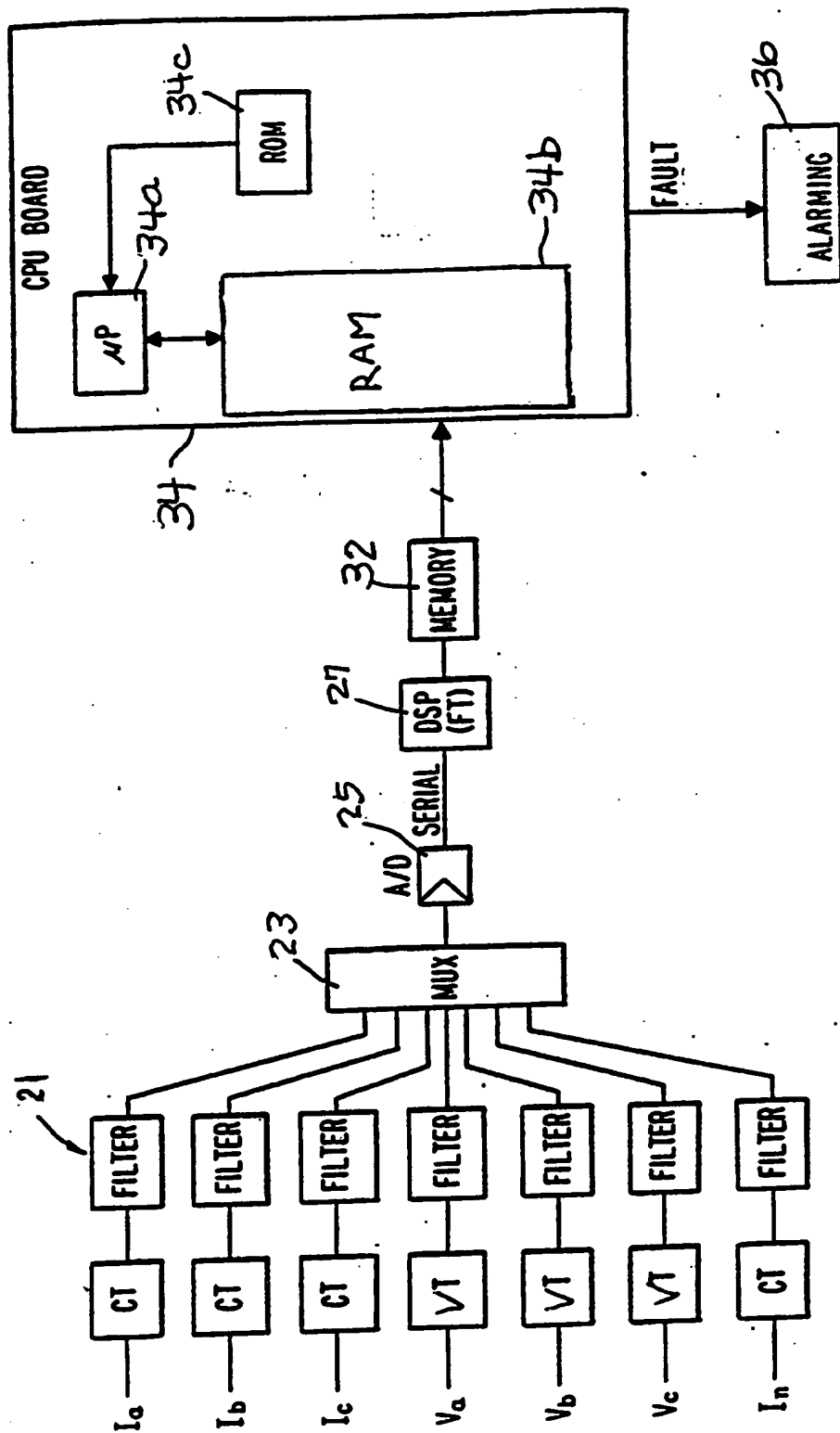


FIG. 2a

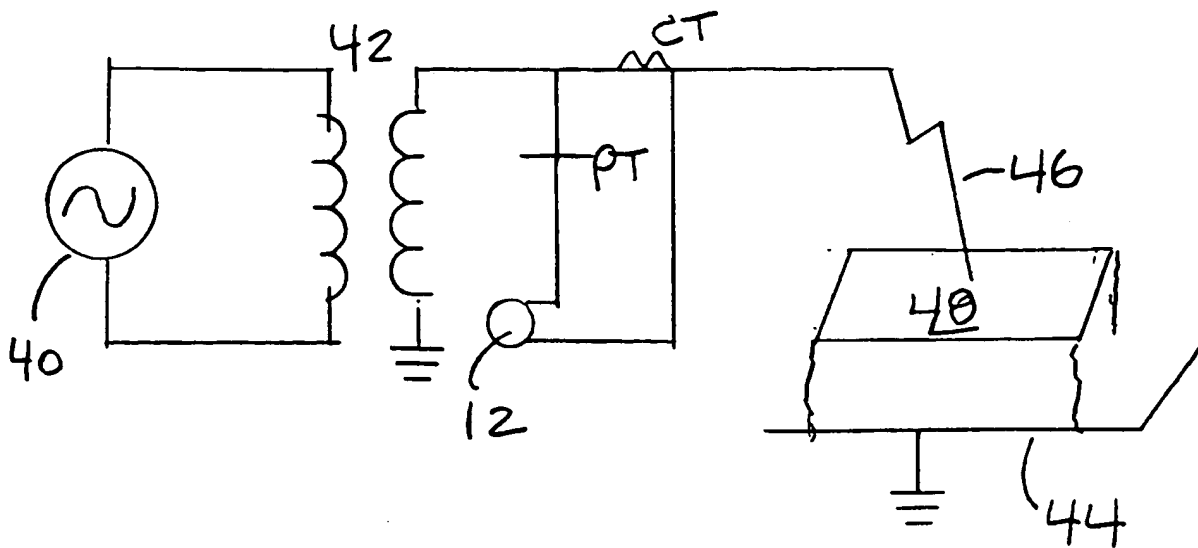


FIG. 3

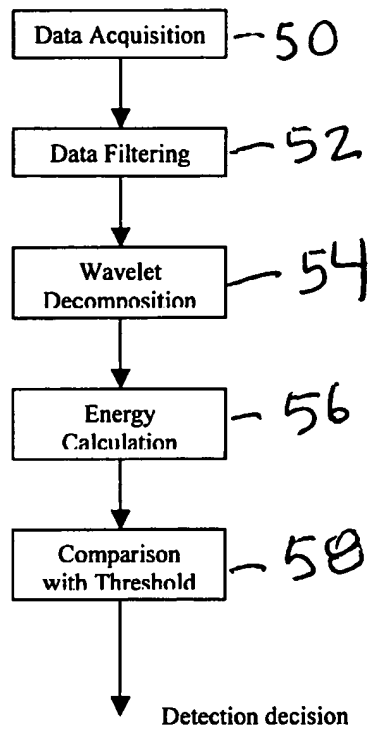


Figure #4: Flowchart showing a wavelet based high impedance fault detection system

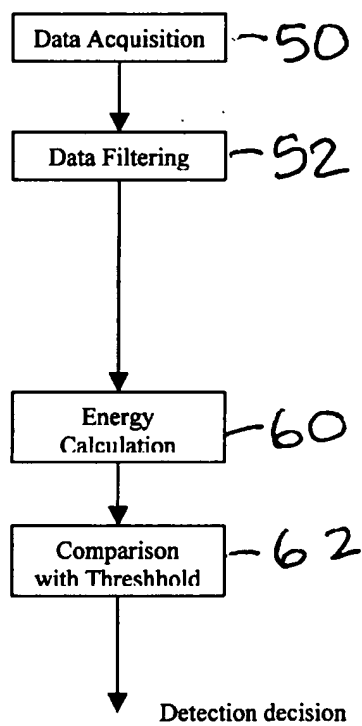


Figure # 5: Flowchart showing a 2<sup>nd</sup> order statistic based high impedance fault detection system

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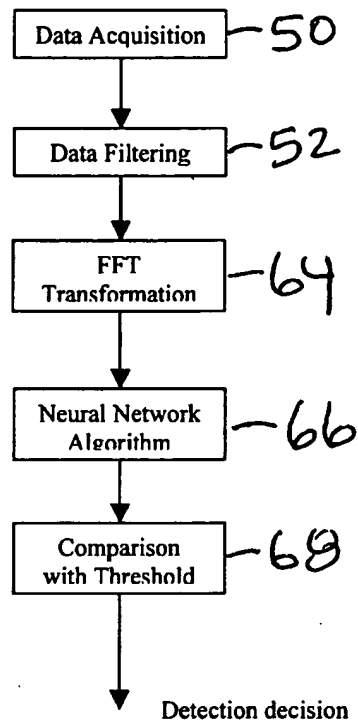


Figure #6: Flowchart showing a neural network based high impedance fault detection system